

FIG.1

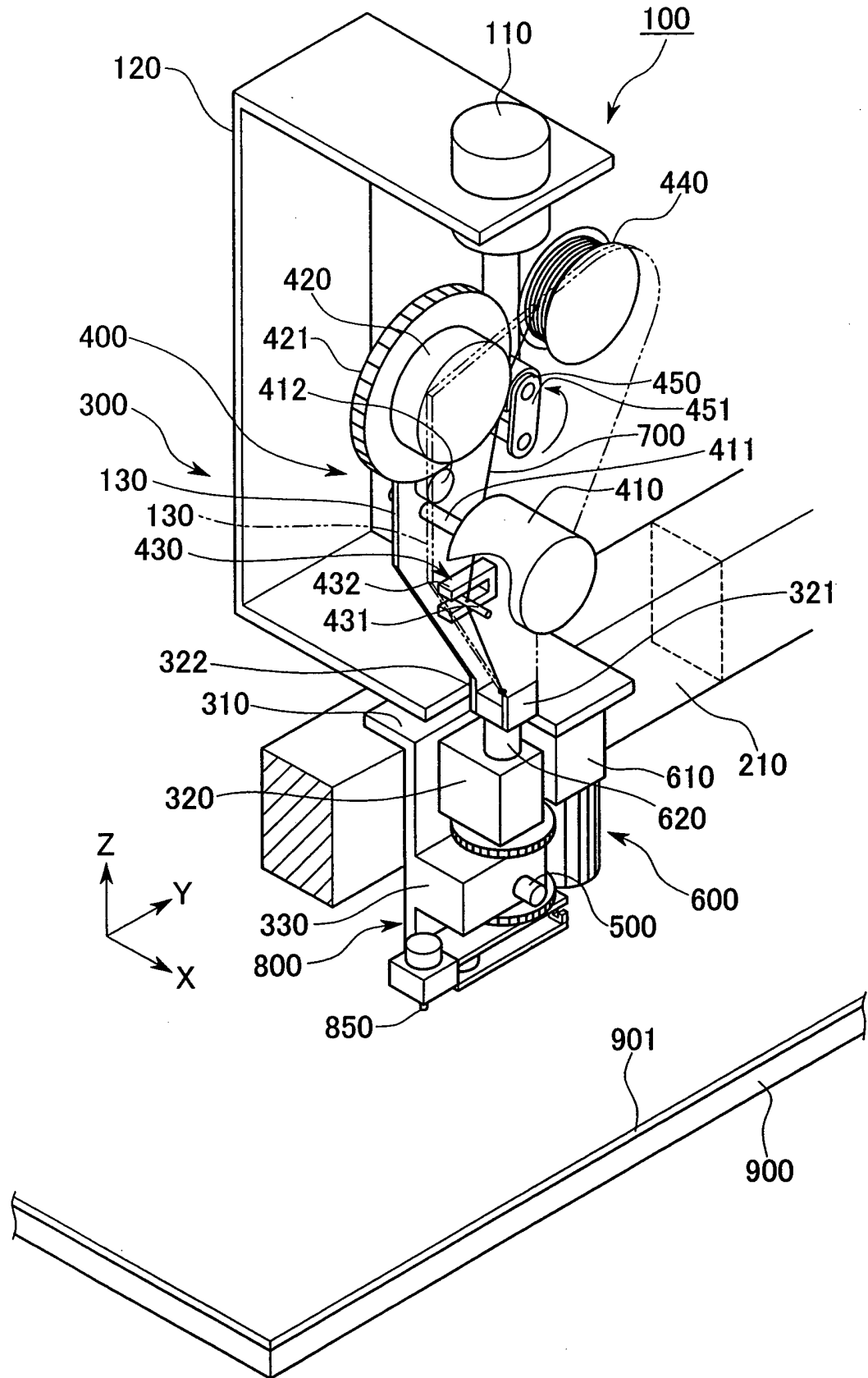


FIG.2

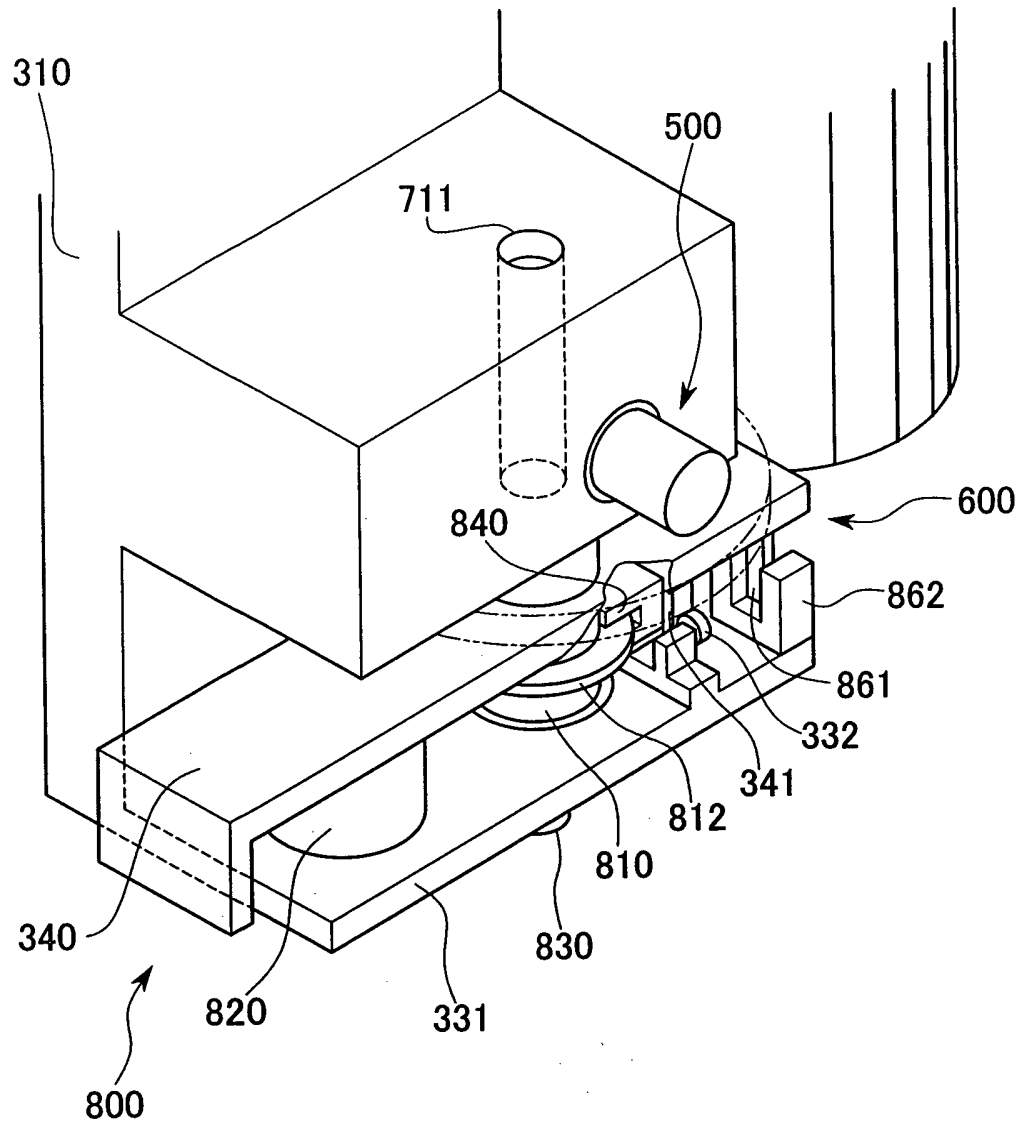


FIG.3

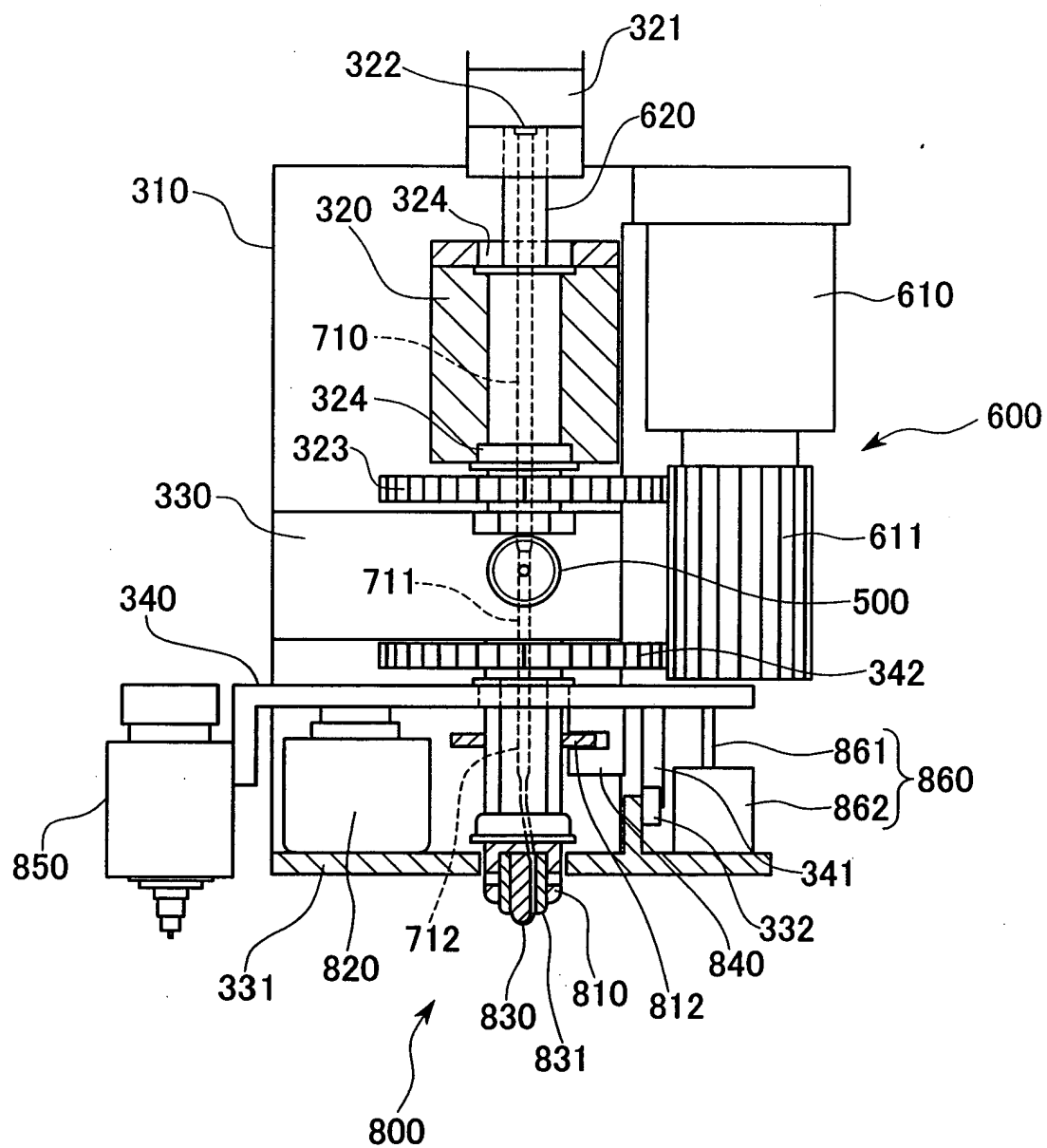


FIG.4

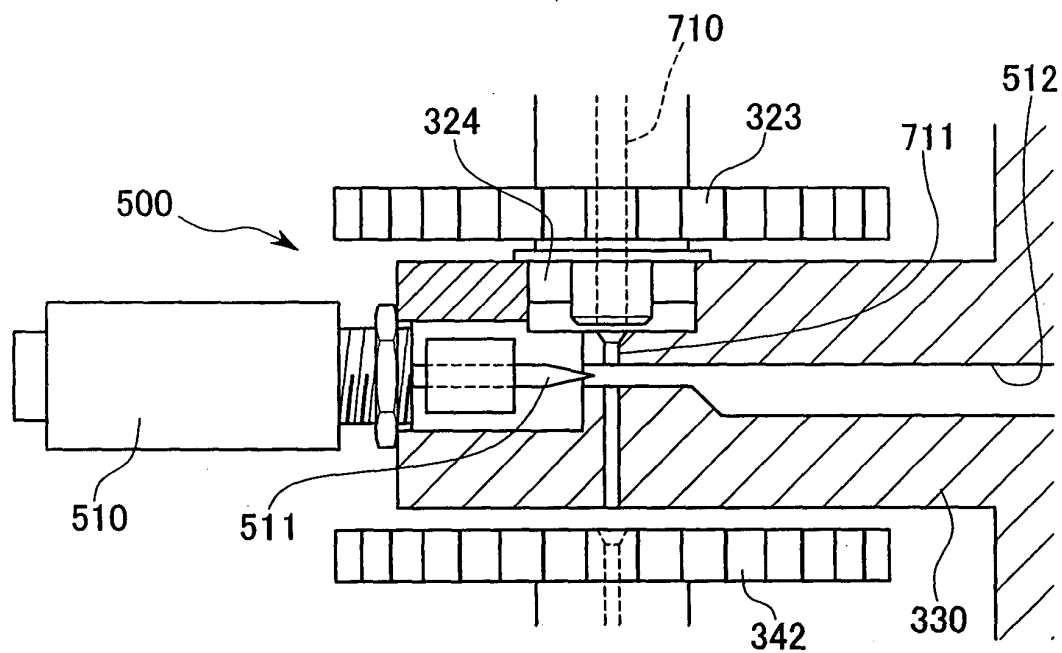


FIG.5a

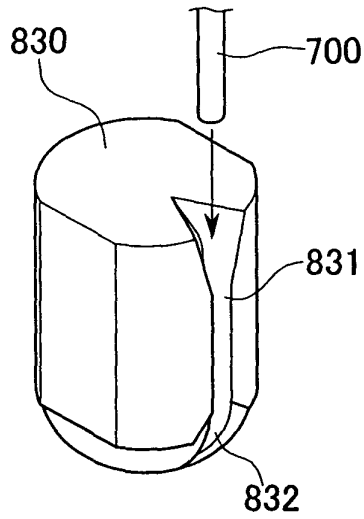


FIG.5b

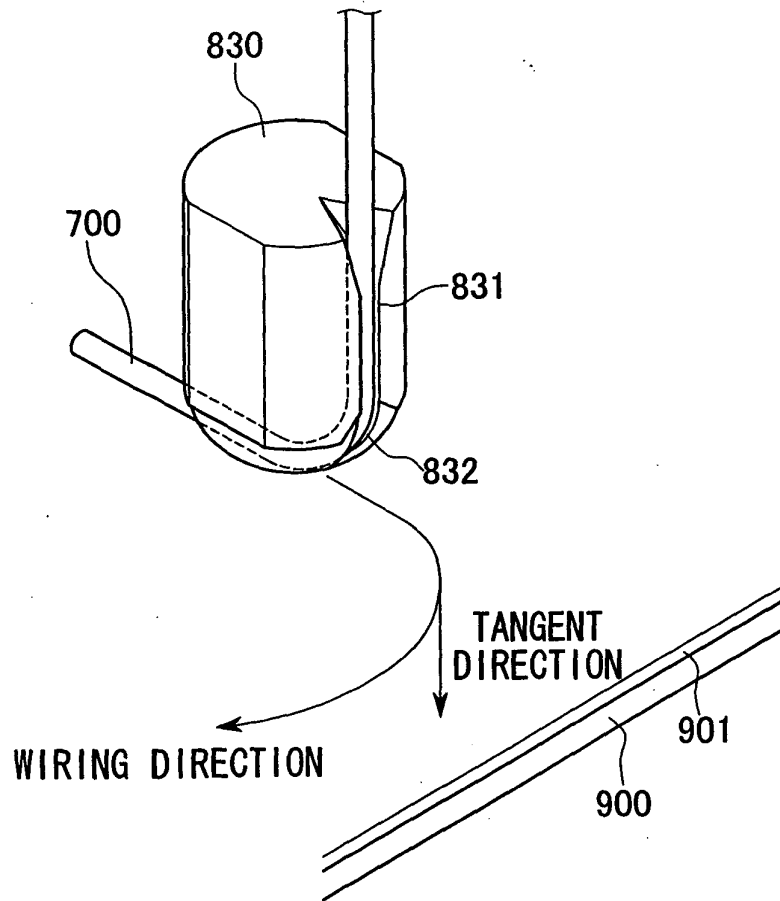


FIG.6a

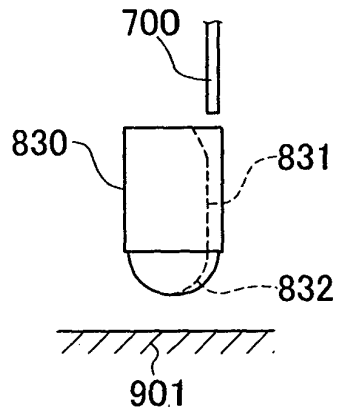


FIG.6d

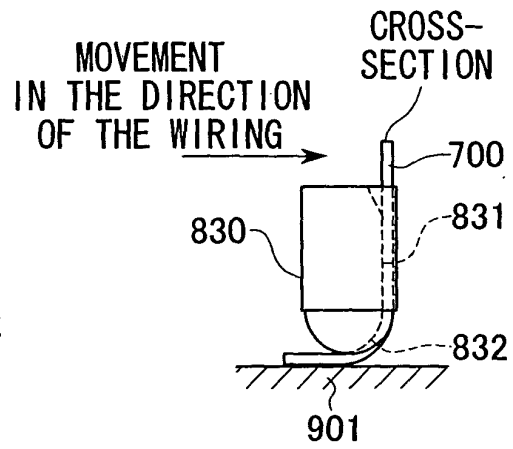


FIG.6b

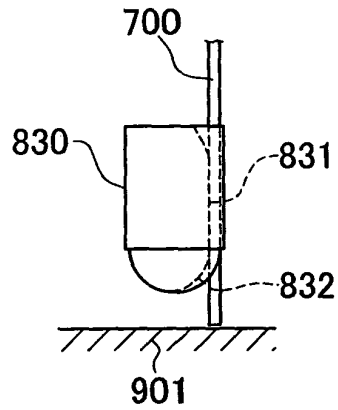


FIG.6e

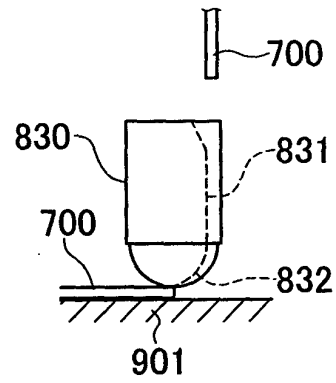


FIG.6c

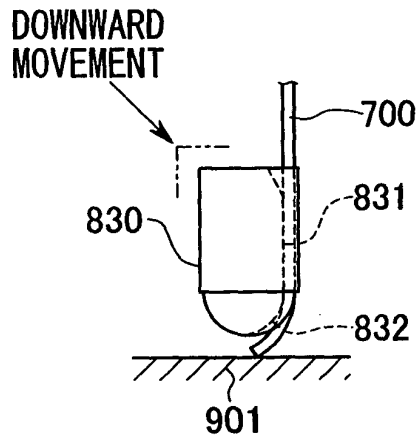
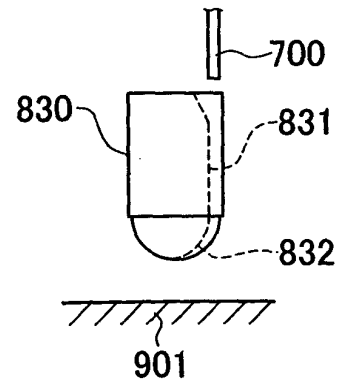


FIG.6f



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FIG.8

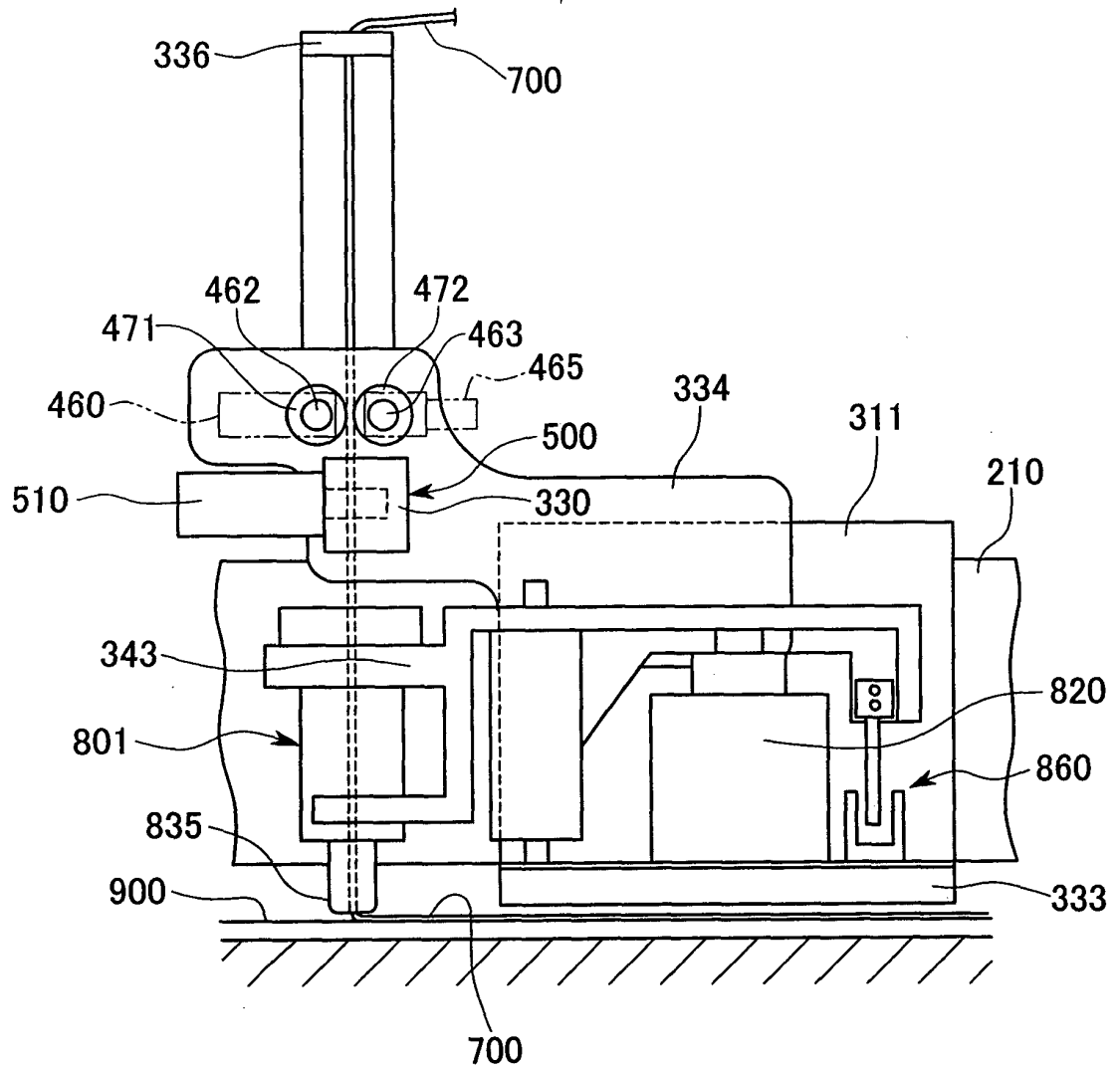


FIG.9

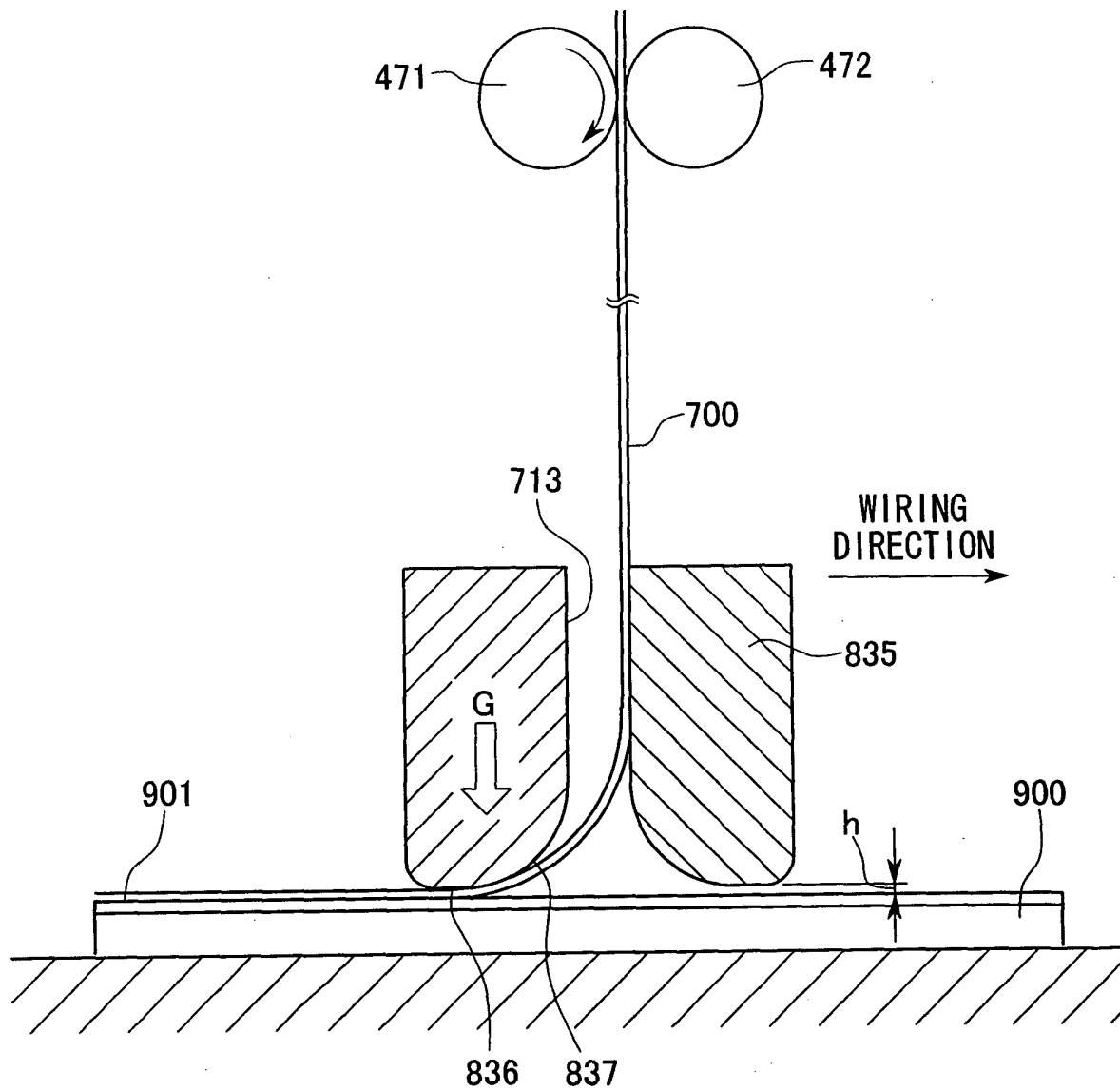


FIG.10

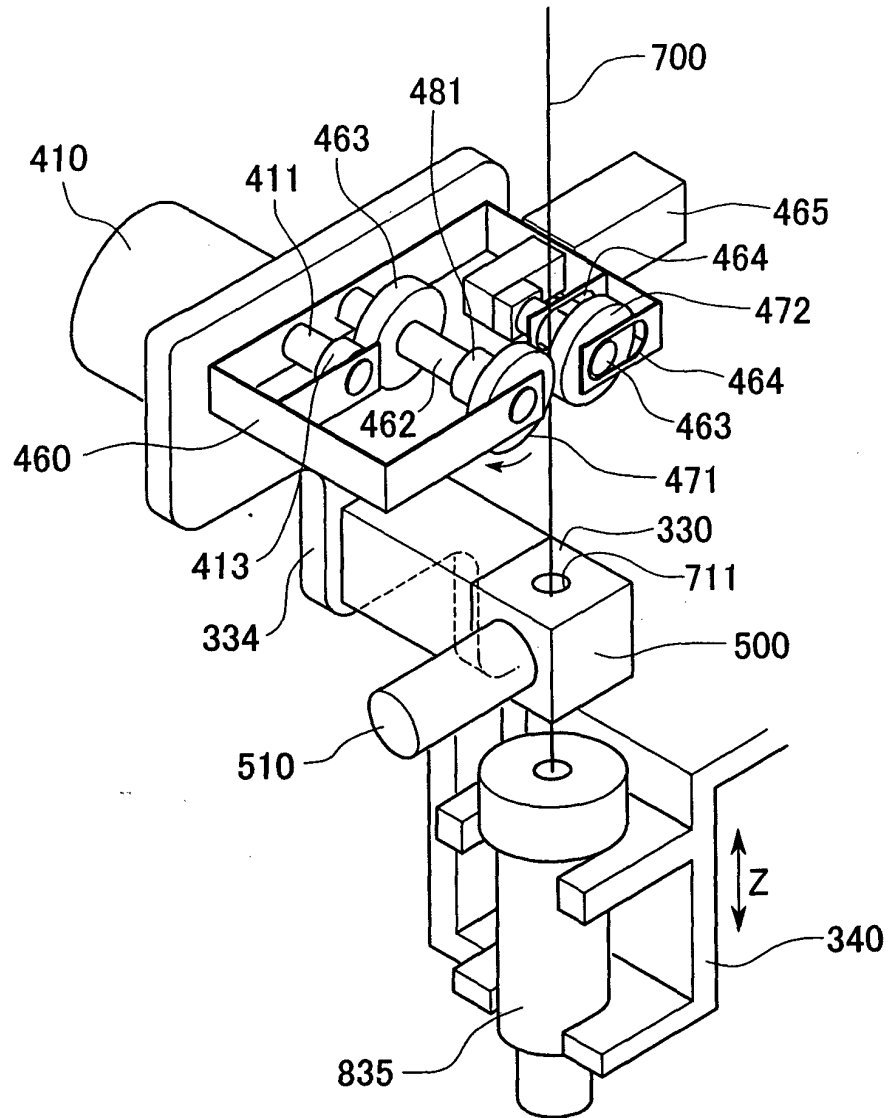


FIG.11a

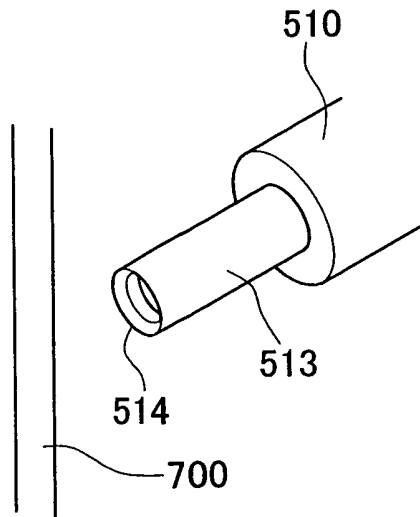


FIG.11b

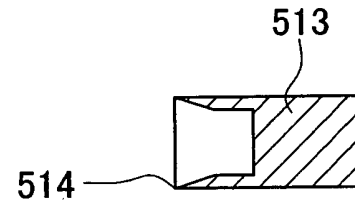


FIG.12

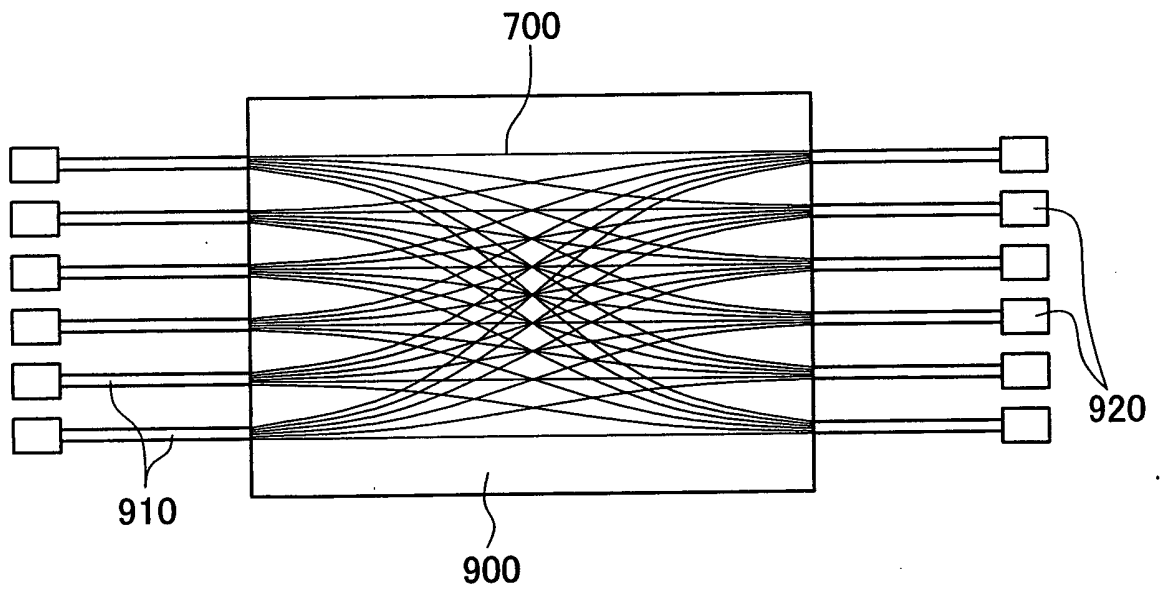
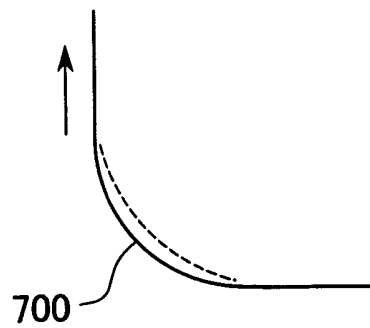


FIG.13



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FIG.14

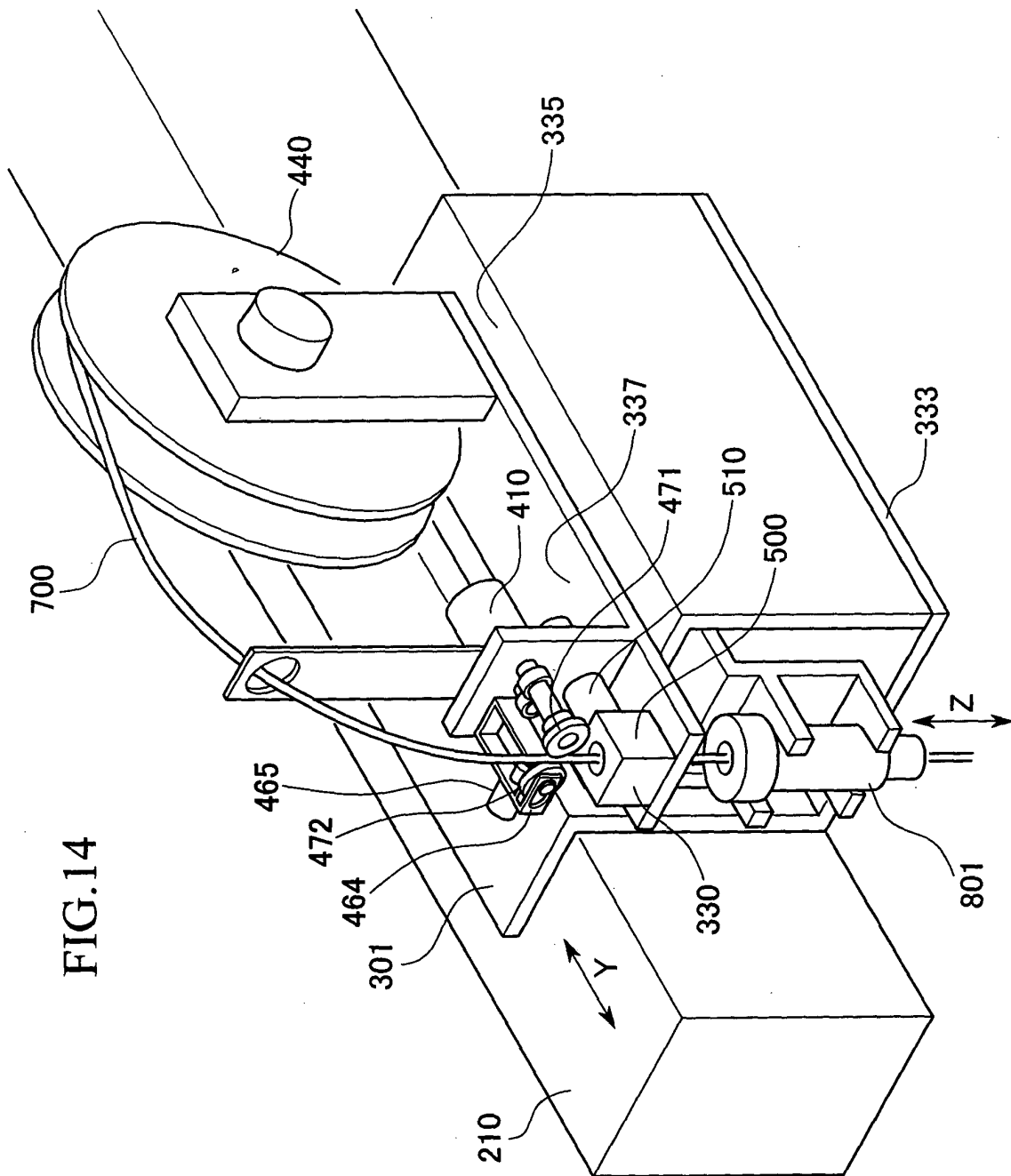


FIG.15

RADIUS OF CURVATURE
OF THE OPTICAL FIBER (mm)

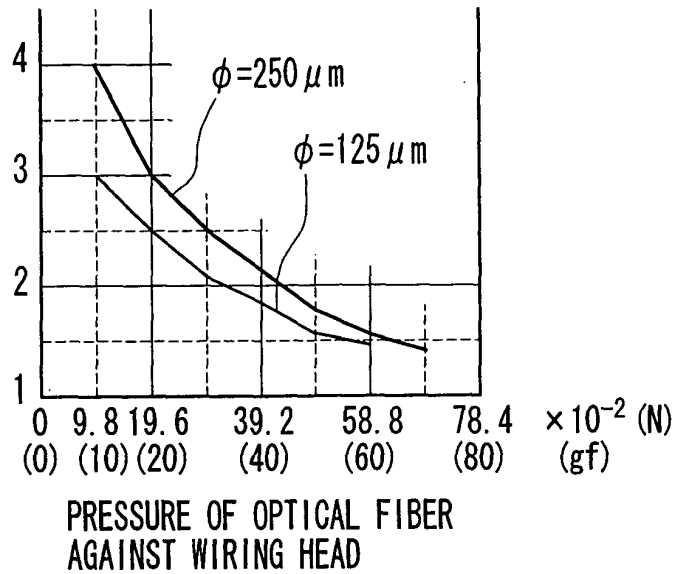


FIG.16

PRESSURE G OF WIRING HEAD	WIRING NUMBER	FREQUENCY OF PATTERN FAILURE
9.8×10^{-2} (N) (10gf)	1 0	0
1.9×10^{-1} (N) (20gf)	1 0	0
1.3 (N) (130gf)	1 0	0
2.0 (N) (200gf)	1 0	0
2.2 (N) (230gf)	1 0	2